

1. A circuit arrangement for a mobile telephone having a transmission branch (11), comprising

- a first signal line (21) for a first frequency band (fB1) and at least one other  
5 signal line (22) for at least one other frequency band (fB2),  
- an antenna line (3), which is connected to an antenna (4),  
- in which the antenna line is connected to a switch (5) for optionally contacting  
the antenna (4) with one of the signal lines (21, 22),

- and in which an amplifier (61, 62) is connected in series with each signal line  
10 (21, 22),

- in which a band-pass filter (71, 72) for the respective frequency range (fB1, fB2)  
is connected between each amplifier (61, 62) and the switch (5).

2. A circuit arrangement as claimed in claim 1, having a reception branch (12),

15 - containing an additional signal line (23) for an additional frequency band,  
- in which a band-pass filter (73) for the additional frequency band is connected in  
series to the signal line (23),

- and in which the reception branch (12) and the transmission branch (11) of the  
circuit arrangement are connected to the antenna line (3) by means of an insulator (8).

20 3. A circuit arrangement as claimed in one of claims 1 or 2,

in which a band-pass filter (71, 72, 73) is designed as a ceramic filter.

4. A circuit arrangement as claimed in claim 3,  
in which several ceramic filters are mounted on a shared piece of sheet metal.

5 5. A circuit arrangement as claimed in claim 1,  
in which passive components (91, 92) for impedance adjustment are connected  
between the switch (5) and the respective band-pass filters (71, 72).

6. A circuit arrangement as claimed in claim 2,  
10 in which a passive component (93) for impedance adjustment is connected  
between the insulator (8) and the band-pass filter (73) in the reception branch (12).

7. A circuit arrangement as claimed in one of claims 2 to 6,  
in which the insulator (8), the switch (5) and the passive components (91, 92, 93)  
15 are integrated into a multilayer module (100).

8. A circuit arrangement as claimed in one of claims 1 to 7,  
in which the band-pass filters (71, 72) have attenuation curves (K1, K2) that can  
be brought into approximate alignment by shifting them along the frequency axis.

20 9. A circuit arrangement as claimed in one of claims 1 to 8,  
in which the amplification of the amplifiers (61, 62) is less than 26 dB.